09/525867

Cofc

Atty. Dkt. No. 039386-1171

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

YUE et al.

Title:

ISOLATED

POLYNUCLEOTIDE

ENCODING A HUMAN PSST

SUBUNIT OF THE NADH:UBIQUINONE OXIDOREDUCTASE

COMPLEX (AS AMENDED)

Patent. No.:

7,022,507

Issue Date:

4/4/2006

Examiner:

Della M. Ramirez

Art Unit:

1652

Confirmation

9574

Number:

PTO MISTAKE PURSUANT TO 37 C.F.R. § 1.322(a)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Enclosed, in duplicate, is a Certificate of Correction, Form PTO-1050, for United States Patent Number 7,022,507 issued April 4, 2006. The following Patent Office printing error appears in the issued patent:

IN THE SPECIFICATION

In Patent No. 7,022,507, after column 46, Tables 1-5, which were filed with the patent application on 03/15/2000, are missing.

Applicant submits that the above changes would not constitute new matter, and correction thereof would not require reexamination.

Pursuant to 37 C.F.R. §1.322, Applicant requests that the enclosed Certificate of Correction be approved.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date Sept 7 2006

FOLEY & LARDNER LLP

Customer No. 22428

Telephone: (202) 672-5538

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(202) 672-5399

Michele M. Simkin

Attorney for Applicant

By Michael Mich

Registration No. 34,717

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

7,022,507

APPLICATION NO.

09/525.867

DATED

4/4/2006

INVENTOR(S)

Henry Yue; Preeti G. Lal; Y. Tom Tang; Dyung Aina M. Lu; Janice K. Au-

Young

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Insert the following Tables after column 46, and before the sequence listing:

Table 1

Protein SEQ ID NO:	Nucleotide SEQ ID NO:	Clone ID	Library	Fragments
1	9	1676225	BLADNOT05	1510924F6 (LUNGNOT14), 1676225F6 (BLADNOT05), 1676225H1 (BLADNOT05), 1988463R6 (LUNGAST01), 3143066H1 (HNT2AZS07)
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3	11	2186363	PROSNOT26	029201R1 (SPLNFET01), 350269H1 (LVENNOT01), 982451T2 (TONGTUT01), 2186363H1 (PROSNOT26), 2186363X11C1 (PROSNOT26), 3011602H1 (MUSCNOT07), 4603644H1 (BRSTNOT07)
4	12	3126833	LUNGTUT12	1212133H1 (BRSTTUT01), 1503929F1 (BRAITUT07), 3126833H1 (LUNGTUT12)
. 5	13	3446038	FIBPNOT01	1695215H1 (COLNNOT23), 2103116T6 (BRAITUT02), 2778432F6 (OVARTUT03), 2969365F6 (HEAONOT02), 3446038H1 (FIBPNOT01), 4462290H1 (HEAADIT01), SBHA01009F1
6	14	4113161	UTRSTUT07	865350R1 (BRAITUT03), 1323856F1 (LPARNOT02), 1573915X11 (LNODNOT03), 1573915X13 (LNODNOT03), 1711996F6 (PROSNOT16), 2432241H1 (BRAVUNT02), 4113161H1 (UTRSTUT07)
7	15	4408678	OVARNOT13	4408537H1 (OVARNOT13), 4408678H1 (OVARNOT13)
8	16	4942111	BRAIFEN03	4942111F6 (BRAIFEN03), 4942111H1 (BRAIFEN03)

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Young

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Table 2

					Tuble 2		
	Protein SEQ ID NO:	Amino Acid Residues	Potential Phosphorylation Sites	Potential Glycosylation Sites	Signature Sequence	Identification	Analytical Methods
	1	213	S78 S58 S57 S113 T127		Respiratory-chain NADH dehydrogenase 20 kD subunit: V91-E204	PSST subunit of the NADH:ubiquinone oxidoreductase complex [Bos taurus] g599691	Motifs BLAST BLOCKS Pfam
	2	303	S115 T124 T214 S264 T75 S98 T145	N277	Mitochondrial carrier protein: A133-L187	Mitochondrial carrier protein [Homo sapiens] g5815345	Motifs BLAST BLOCKS Pfam
	3	294	S164 T195 S229 T183 T231 Y284	N27 N137		ABC1 protein [Arabidopsis thaliana] g3859609	Motifs BLAST
	4	179	S105 S170		Transmembrane domain: S20-L37	Divalent cation tolerance protein [Homo sapiens] g4454995	Motifs BLAST HMMER
	5	314	S303 T92 T97 T109 T261 S279 S298 S303		Mitochondrial carrier protein: V33-V101, N108-K255, N256-L302	Putative mitochondrial carrier protein [C. elegans] g3879122	Motifs BLAST PRINTS ProfileScan Pfam
-	6	544	S126 S161 S209 T383 T427 T535 S539 T70 S76 T148 T318 T462		Protein intergenic region, ABC1 precursor, mitochondrial energy transfer: V149-Q158, V207-G226, G231-V251, V309-G329	ABC1 protein [C. elegans] g3859609	Motifs BLOCKS
	7	128	S26 S33 T39 Y43	N122		Photosystem II 10 kD polypeptide [Oryza sativa] g1835731	Motifs BLAST
	8	72	T31 S69			Ubiquinol-cytochrome c reductase [Solanum tuberosum] g633687	Motifs BLAST

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09/525.867

DATED

4/4/2006

INVENTOR(S)

Henry Yue; Preeti G. Lal; Y. Tom Tang; Dyung Aina M. Lu; Janice K. Au-

Young

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Table 3

Nucleotide SEQ ID NO:	Tissue Expression (Fraction of Total)	Disease or Condition (Fraction of Total)	Vector	
9	Nervous (0.186) Reproductive (0.172) Cardiovascular (0.145)	Cell Proliferation (0.669) Inflammation/Immune (0.289)	PINCY	
10	Reproductive (0.219) Gastrointestinal (0.190) Nervous (0.143)	Cell Proliferation (0.743) Inflammation/Immune (0.286)	PSPORT1	
11	Reproductive (0.256) Nervous (0.140) Gastrointestinal (0.128)	Cell Proliferation (0.686) Inflammation/Immune (0.314)	PINCY	
12	Reproductive (0.259) Gastrointestinal (0.165) Nervous (0.147)	Cell Proliferation (0.697) Inflammation/Immune (0.295)		
13	Reproductive (0.250) Hematopoietic/Immune (0.188) Cardiovascular (0.125)	Cell Proliferation (0.563) Inflammation/Immune (0.437)	pINCY	
14	Nervous (0.192) Gastrointestinal (0.154) Reproductive (0.154)	Cell Proliferation (0.557) Inflammation/Immune (0.365)	pINCY	
15	Dermatologic (0.333) Cardiovascular (0.333) Reproductive (0.333)	Cell Proliferation (0.666)	pINCY	
16	Nervous (1.000)	Cell Proliferation (1.000)	pINCY	

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Table 4

Nucleotide SEQ ID NO:	Library	Library Comment
9	BLADNOT05	Library was constructed using RNA isolated from bladder tissue removed from a 60-year-old Caucasian male during a radical cystectomy, prostatectomy, and vasectomy. Pathology for the associated tumor tissue indicated grade 3 transitional cell carcinoma. Carcinoma insitu was identified in the dome and trigone. Patient history included tobacco use.
10	BEPINOT01	Library was constructed using RNA isolated from a bronchial epithelium primary cell line derived from a 54-year-old Caucasian male.
11	PROSNOT26	Library was constructed using RNA isolated from prostate tissue removed from a 65-year- old Caucasian male during a radical prostatectomy. Pathology for the associated tumor tissue indicated an adenocarcinoma. The patient presented with elevated prostate specific antigen (PSA). Family history included a malignant stomach neoplasm.
12	LUNGTUT12	Library was constructed using RNA isolated from tumorous lung tissue removed from a 70-year-old Caucasian female during a lung lobectomy of the left upper lobe. Pathology indicated grade 3 (of 4) adenocarcinoma and vascular invasion. Patient history included tobacco abuse, depressive disorder, anxiety state, and skin cancer. Family history included cerebrovascular disease, congestive heart failure, colon cancer, depressive disorder, and primary liver.
13	FIBPNOT01	Library was constructed using RNA isolated from fibroblasts of the prostate stroma removed from a male fetus, who died after 26 weeks' gestation.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Table 4 (cont.)

Nucleotide SEQ ID NO:	Library	Library Comment
14	UTRSTUT07	Library was constructed using RNA isolated from uterine tumor tissue removed from a 41- year-old Caucasian female during total abdominal hysterectomy with removal of an ovary and incidental appendectomy. Pathology indicated the endometrium was secretory phase, and the cervix showed microglandular hyperplasia. There were multiple (2 subserosal, 13 intramural, 1 submucosal) leiomyomas. Family history included atherosclerotic coronary artery disease, benign hypertension, depression, and type II diabetes.
15	OVARNOT13	Library was constructed using RNA isolated from left ovary tissue removed from a 47-year-old Caucasian female during a vaginal hysterectomywith bilateral salpingo-oophorectomy, and dilation and curettage. Pathology for the associated tumor tissue indicated a single intramural leiomyoma. The endometrium was in the secretory phase. The patient presented with menorrhagia. Patient history included hyperlipidemia and benign hypertension. Family history included colon cancer, benign hypertension, atherosclerotic coronary artery disease, and breast cancer.
16	BRAIFEN03	This normalized fetal brain tissue library was constructed from 3.26 million independent clones from the BRAIFET02 library. Starting RNA was made from brain tissue removed from a Caucasian male fetus with a hypoplastic left heart stillborn after 23 weeks' gestation. The library was normalized in two rounds (with 48 hour reannealing hybridizations) using conditions adapted from Soares et al. (Proc. Natl. Acad. Sci. USA (1994) 91:9928) and Bonaldo et al. (Genome Research (1996) 6:791).

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Young

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Table 5

	Program	Description	Reference	Parameter Threshold
	ARI FACTURA	A program that removes vector sequences and masks	Perkin-Elmer Applied Biosystems, Foster City, CA.	
:	ABI/PARACEL FDF		Perkin-Elmer Applied Biosystems, Foster City, CA; Paracel Inc., Pasadena, CA.	Mismatch <50%
:	ABI AutoAssembler		Perkin-Elmer Applied Biosystems, Foster City, CA.	
	DEI 10 .	A Basic Local Alignment Search Tool useful in sequence similarity search for amino acid and nucleic acid sequences. BLAST includes five functions: blastp, blastn, blastx, tblastn, and tblastx.	215:403-410: Altschul, S.F. et al. (1997)	ESTs: Probability value= 1.0E-8 or less Full Length sequences: Probability value= 1.0E-10 or less
٠	FASTA	A Pearson and Lipman algorithm that searches for similarity between a query sequence and a group of sequences of the same type. FASTA comprises as least five functions: fasta, tfasta, fastx, tfastx, and ssearch.	Pearson, W.R. and D.J. Lipman (1988) Proc. Natl. Acad Sci. 85:2444-2448; Pearson, W.R. (1990) Methods Enzymol. 183: 63-98; and . Smith, T.F. and M. S. Waterman (1981) Adv. Appl. Math. 2:482-489.	ESTs: fasta E value=1.06E-6 Assembled ESTs: fasta Identity= 95% or greater and Match length=200 bases or greater; fastx E value=1.0E-8 or less Full Length sequences: fastx score=100 or greater
	BLIMPS	A BLocks IMProved Searcher that matches a sequence against those in BLOCKS, PRINTS, DOMO, PRODOM, and PFAM databases to search for gene families, sequence homology, and structural fingerprint regions.	Henikoff, S and J.G. Henikoff, Nucl. Acid Res., 19:6565-72, 1991. J.G. Henikoff and S. Henikoff (1996) Methods Enzymol. 266:88- 105; and Attwood, T.K. et al. (1997) J. Chem. Inf. Comput. Sci. 37: 417-424.	Score=1000 or greater; Ratio of Score/Strength = 0.75 or larger; and, if applicable, Probability value= 1.0E-3 or less
	нммек	An algorithm for searching a query sequence against hidden Markov model (HMM)-based databases of protein family consensus sequences, such as PFAM.	Krogh, A. et al. (1994) J. Mol. Biol., 235:1501-1531; Sonnhammer, E.L.L. et al. (1988) Nucleic Acids Res. 26:320-322.	Score=10-50 bits for PFAM hits, depending on individual protein families
		1		

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Table 5 (cont.)

Program	Description	Reference	Parameter Threshold
ProfileScan .	An algorithm that searches for structural and sequence motifs in protein sequences that match sequence patterns defined in Prosite.	Gribskov, M. et al. (1988) CABIOS 4:61-66; Gribskov, et al. (1989) Methods Enzymol. 183:146-159; Bairoch, A. et al. (1997) Nucleic Acids Res. 25: 217-221.	Normalized quality scores GCG- specified "HIGH" value for that particular Prosite motif. Generally, score=1.4-2.1.
Phred	A base-calling algorithm that examines automated sequencer traces with high sensitivity and probability.	Ewing, B. et al. (1998) Genome Res. 8:175-185; Ewing, B. and P. Green (1998) Genome Res. 8:186- 194.	
Phrap	A Phils Revised Assembly Program including SWAT and CrossMatch, programs based on efficient implementation of the Smith-Waterman algorithm, useful in searching sequence homology and assembling DNA sequences.	Smith, T.F. and M. S. Waterman (1981) Adv. Appl. Math. 2:482-489; Smith, T.F. and M. S. Waterman (1981) J. Mol. Biol. 147:195- 197; and Green, P., University of Washington, Seattle, WA.	Score= 120 or greater; Match length= 56 or greater
Consed	A graphical tool for viewing and editing Phrap assemblies	Gordon, D. et al. (1998) Genome Res. 8:195-202.	
SPScan	A weight matrix analysis program that scans protein sequences for the presence of secretory signal peptides.	Nielson, H. et al. (1997) Protein Engineering 10:1-6; Claverie, J.M. and S. Audic (1997) CABIOS 12: 431-439.	Score=3.5 or greater
Motifs	A program that searches amino acid sequences for patterns that matched those defined in Prosite.	Bairoch et al. <u>supra</u> ; Wisconsin Package Program Manual, version 9, page M51-59, Genetics Computer Group, Madison, WI.	

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	3	11	2186363	PROSNOT26	029201R1 (SPLNFET01), 350269H1 (LVENNOT01), 982451T2 (TONGTUT01), 2186363H1 (PROSNOT26), 2186363X11C1 (PROSNOT26), 3011602H1 (MUSCNOT07), 4603644H1 (BRSTNOT07)
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	6	14	4113161	UTRSTUT07	865350R1 (BRAITUT03), 1323856F1 (LPARNOT02), 1573915X11 (LNODNOT03), 1573915X13 (LNODNOT03), 1711996F6 (PROSNOT16), 2432241H1 (BRAVUNT02), 4113161H1 (UTRSTUT07)
	7	15	4408678	OVARNOT13	4408537H1 (OVARNOT13), 4408678H1 (OVARNOT13)
	8	16	4942111	BRAIFEN03	4942111F6 (BRAIFEN03), 4942111H1 (BRAIFEN03)

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

7,022,507

APPLICATION NO.

09/525.867

DATED

4/4/2006

INVENTOR(S)

Henry Yue; Preeti G. Lal; Y. Tom Tang; Dyung Aina M. Lu; Janice K. Au-

Young

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Table 2

Protein SEQ ID NO:	Amino Acid Residues	Potential Phosphorylation Sites	Potential Glycosylation Sites	Signature Sequence	Identification	Analytical Methods
1	213	S78 S58 S57 S113 T127		Respiratory-chain NADH dehydrogenase 20 kD subunit: V91-E204	PSST subunit of the NADH:ubiquinone oxidoreductase complex (Bos taurus) g599691	Motifs BLAST BLOCKS Pfam
2	303	S115 T124 T214 S264 T75 S98 T145	N277	Mitochondrial carrier protein: A133-L187	Mitochondrial carrier protein [Homo sapiens] g5815345	Motifs BLAST BLOCKS Pfam
3	294	S164 T195 S229 T183 T231 Y284	N27 N137		ABC1 protein [Arabidopsis thaliana] g3859609	Motifs BLAST
 4	179	s105 s170		Transmembrane domain: S20-L37	Divalent cation tolerance protein [Homo sapiens] g4454995	Motifs BLAST HMMER
 5	314	S303 T92 T97 T109 T261 S279 S298 S303		Mitochondrial carrier protein: V33-V101, N108-K255, N256-L302	Putative mitochondrial carrier protein [C. elegans] g3879122	Motifs BLAST PRINTS ProfileScan Pfam
6	544	S126 S161 S209 T383 T427 T535 S539 T70 S76 T148 T318 T462		Protein intergenic region, ABC1 precursor, mitochondrial energy transfer: V149-Q158, V207-G226, G231-V251, V309-G329	ABC1 protein (C. elegans) g3859609	Motifs BLOCKS
7	128	S26 S33 T39 Y43	N122		Photosystem II 10 kD polypeptide [Oryza sativa] g1835731	Motifs BLAST
8	72	T31 S69			Ubiquinol-cytochrome c reductase [Solanum tuberosum] g633687	Motifs BLAST

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Henry Yue; Preeti G. Lal; Y. Tom Tang; Dyung Aina M. Lu; Janice K. Au-

Young

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Table 3

Nucleotide SEQ ID NO:	Tissue Expression (Fraction of Total)	Disease or Condition (Fraction of Total)	Vector
9	Nervous (0.186) Reproductive (0.172) Cardiovascular (0.145)	Cell Proliferation (0.669) Inflammation/Immune (0.289)	PINCY
10	Reproductive (0.219) Gastrointestinal (0.190) Nervous (0.143)	Cell Proliferation (0.743) Inflammation/Immune (0.286)	PSPORT1
11	Reproductive (0.256) Nervous (0.140) Gastrointestinal (0.128)	Cell Proliferation (0.686) Inflammation/Immune (0.314)	PINCY
12	Reproductive (0.259) Gastrointestinal (0.165) Nervous (0.147)	Cell Proliferation (0.697) Inflammation/Immune (0.295)	PINCY
13	Reproductive (0.250) Hematopoietic/Immune (0.188) Cardiovascular (0.125)	Cell Proliferation (0.563) Inflammation/Immune (0.437)	PINCA
14	Nervous (0.192) Gastrointestinal (0.154) Reproductive (0.154)	Cell Proliferation (0.557) Inflammation/Immune (0.365)	pINCY
15	Dermatologic (0.333) Cardiovascular (0.333) Reproductive (0.333)	Cell Proliferation (0.666)	PINCY
16	Nervous (1.000)	Cell Proliferation (1.000)	pINCY

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Table 4

Nucleotide SEQ ID NO:	Library	Library Comment
9	BLADNOT05	Library was constructed using RNA isolated from bladder tissue removed from a 60-year-old Caucasian male during a radical cystectomy, prostatectomy, and vasectomy. Pathology for the associated tumor tissue indicated grade 3 transitional cell carcinoma. Carcinoma insitu was identified in the dome and trigone. Patient history included tobacco use.
10	BEPINOT01	Library was constructed using RNA isolated from a bronchial epithelium primary cell line derived from a 54-year-old Caucasian male.
11	PROSNOT26	Library was constructed using RNA isolated from prostate tissue removed from a 65-year- old Caucasian male during a radical prostatectomy. Pathology for the associated tumor tissue indicated an adenocarcinoma. The patient presented with elevated prostate specific antigen (PSA). Family history included a malignant stomach neoplasm.
12	LUNGTUT12	Library was constructed using RNA isolated from tumorous lung tissue removed from a 70-year-old Caucasian female during a lung lobectomy of the left upper lobe. Pathology indicated grade 3 (of 4) adenocarcinoma and vascular invasion. Patient history included tobacco abuse, depressive disorder, anxiety state, and skin cancer. Family history included cerebrovascular disease, congestive heart failure, colon cancer, depressive disorder, and primary liver.
13	FIBPNOT01	Library was constructed using RNA isolated from fibroblasts of the prostate stroma removed from a male fetus, who died after 26 weeks' gestation.

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Table 4 (cont.)

Nucleotide SEQ ID NO:	Library	Library Comment
14	UTRSTUT07	Library was constructed using RNA isolated from uterine tumor tissue removed from a 41- year-old Caucasian female during total abdominal hysterectomy with removal of an ovary and incidental appendectomy. Pathology indicated the endometrium was secretory phase, and the cervix showed microglandular hyperplasia. There were multiple (2 subserosal, 13 intramural, 1 submucosal) leiomyomas. Family history included atherosclerotic coronary artery disease, benign hypertension, depression, and type II diabetes.
15	OVARNOT13	Library was constructed using RNA isolated from left ovary tissue removed from a 47-year-old Caucasian female during a vaginal hysterectomywith bilateral salpingo-oophorectomy, and dilation and curettage. Pathology for the associated tumor tissue indicated a single intramural leiomyoma. The endometrium was in the secretory phase. The patient presented with menorrhagia. Patient history included hyperlipidemia and benign hypertension. Family history included colon cancer, benign hypertension, atherosclerotic coronary artery disease, and breast cancer.
16	BRAIFEN03	This normalized fetal brain tissue library was constructed from 3.26 million independent clones from the BRAIFET02 library. Starting RNA was made from brain tissue removed from a Caucasian male fetus with a hypoplastic left heart stillborn after 23 weeks' gestation. The library was normalized in two rounds (with 48 hour reannealing hybridizations) using conditions adapted from Soares et al. (Proc. Natl. Acad. Sci. USA (1994) 91:9928) and Bonaldo et al. (Genome Research (1996) 6:791).

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Table 5

Program	Description	Reference	Parameter Threshold
ABI FACTURA	A program that removes vector sequences and masks ambiguous bases in nucleic acid sequences.	Perkin-Elmer Applied Biosystems, Foster City, CA.	•
ABI/PARACEL FDF	A Fast Data Finder useful in comparing and annotating amino acid or nucleic acid sequences.	Perkin-Elmer Applied Biosystems, Foster City, CA; Paracel Inc., Pasadena, CA.	Mismatch <50%
ABI AutoAssembler	A program that assembles nucleic acid sequences.	Perkin-Elmer Applied Biosystems, Foster City, CA.	
BLAST	A Basic Local Alignment Search Tool useful in sequence similarity search for amino acid and nucleic acid sequences. BLAST includes five functions: blastp, blastn, blastx, tblastn, and tblastx.	Altschul, S.F. et al. (1990) J. Mol. Biol. 215:403-410; Altschul, S.F. et al. (1997) Nucleic Acids Res. 25: 3389-3402.	ESTs: Probability value= 1.0E-8 or less Full Length sequences: Probability value= 1.0E-10 or less
FASTA	A Pearson and Lipman algorithm that searches for similarity between a query sequence and a group of sequences of the same type. FASTA comprises as least five functions: fasta, tfasta, fastx, tfastx, and ssearch.	Pearson, W.R. and D.J. Lipman (1988) Proc. Natl. Acad Sci. 85:2444-2448; Pearson, W.R. (1990) Methods Enzymol. 183: 63-98; and Smith, T.F. and M. S. Waterman (1981) Adv. Appl. Math. 2:482-489.	ESTs: fasta E value=1.06E-6 Assembled ESTs: fasta Identity= 95% or greater and Match length=200 bases or greater; fastx E value=1.0E-8 or less Full Length sequences: fastx score=100 or greater
BLIMPS	A BLocks IMProved Searcher that matches a sequence against those in BLOCKS, PRINTS, DOMO, PRODOM, and PFAM databases to search for gene families, sequence homology, and structural fingerprint regions.	Henikoff, S and J.G. Henikoff, Nucl. Acid Res., 19:6565-72, 1991. J.G. Henikoff and S. Henikoff (1996) Methods Enzymol. 266:88- 105; and Attwood, T.K. et al. (1997) J. Chem. Inf. Comput. Sci. 37: 417-424.	Score=1000 or greater; Ratio of Score/Strength = 0.75 or larger; and, if applicable, Probability value= 1.0E-3 or less
HMMER	An algorithm for searching a query sequence against hidden Markov model (HMM)-based databases of protein family consensus sequences, such as PFAM.	Krogh, A. et al. (1994) J. Mol. Biol., 235:1501-1531; Sonnhammer, E.L.L. et al. (1988) Nucleic Acids Res. 26:320-322.	Score=10-50 bits for PFAM hits, depending on individual protein families

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Table 5 (cont.)

	_	Description	Reference	Parameter Threshold
	Program ProfileScan	Description An algorithm that searches for structural and sequence motifs in protein sequences that match sequence patterns defined in Prosite.	Gribskov, M. et al. (1988) CABIOS 4:61-66; Gribskov, et al. (1989) Methods Enzymol. 183:146-159; Bairoch, A. et al. (1997) Nucleic Acids Res. 25: 217-221.	Normalized quality scores GCG- specified "HIGH" value for that particular Prosite motif. Generally, score=1.4-2.1.
	Phred	A base-calling algorithm that examines automated sequencer traces with high sensitivity and probability.	Ewing, B. et al. (1998) Genome Res. 8:175-185; Ewing, B. and P. Green (1998) Genome Res. 8:186- 194.	·
	Phrap	A Phils Revised Assembly Program including SWAT and CrossMatch, programs based on efficient implementation of the Smith-Waterman algorithm, useful in searching sequence homology and assembling DNA sequences.	Smith, T.F. and M. S. Waterman (1981) Adv. Appl. Math. 2:482-489; Smith, T.F. and M. S. Waterman (1981) J. Mol. Biol. 147:195-197; and Green, P., University of Washington, Seattle, WA.	Score= 120 or greater; Match length= 56 or greater
	Consed	A graphical tool for viewing and editing Phrap assemblies	Gordon, D. et al. (1998) Genome Res. 8:195-202.	
	SPScan	A weight matrix analysis program that scans protein sequences for the presence of secretory signal peptides.	Nielson, H. et al. (1997) Protein Engineering 10:1-6; Claverie, J.M. and S. Audic (1997) CABIOS 12: 431-439.	Score=3.5 or greater
•	Motifs	A program that searches amino acid sequences for patterns that matched those defined in Prosite.	Bairoch et al. <u>supra</u> ; Wisconsin Package Program Manual, version 9, page M51-59, Genetics Computer Group, Madison, WI.	

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